

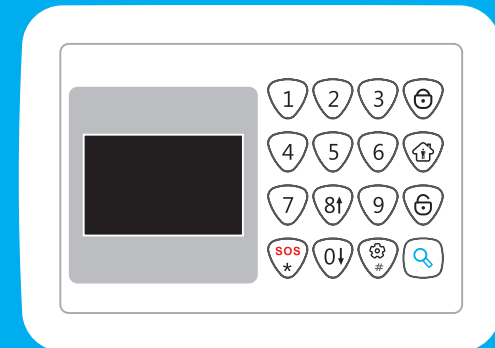
# GSM-120

## 120 Defense Zones

### Smart Voice GSM ALARM System

#### User Manual

Please read before use



## General Description

The system is a multi-functional smart voice GSM alarm system, adopted advanced GSM digital signal process technology, integrated with digital voice,support SMS, self-learning wireless coding, remote appliance control and SMS recognition technologies. Auto-voice prompt and SMS alert available when alarm triggered. Color digital screen can show you the exact alarm direction clearly. System is stable, reliable, secure, and user friendly.

It has been widely used in homes, factories, schools, shops, convenience stores, financial and banking workplace, community centre and residential area to provide protection to valuable assets.

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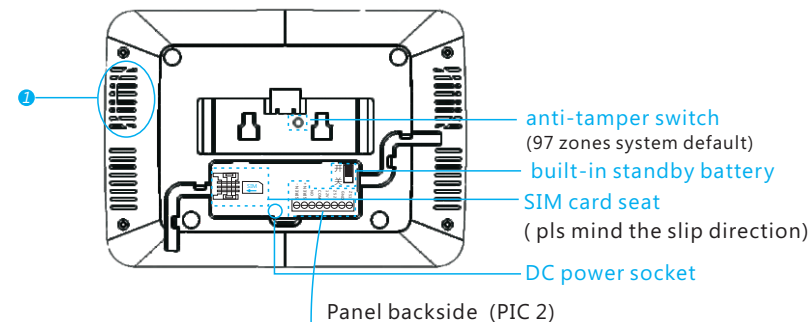
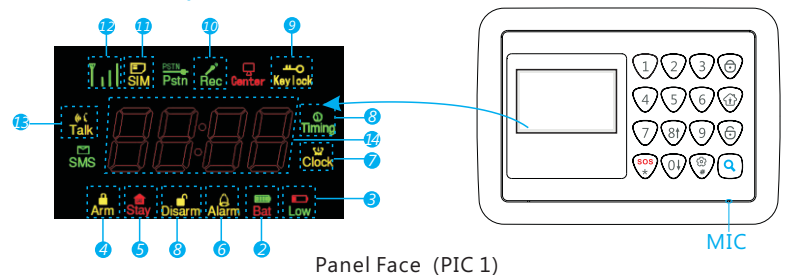
## 1 System feature

Adopt quad-band GSM/GPRS industrial graded module, stable and reliable, with voice prompt. Directly check the phone bills and make phone call on panel.

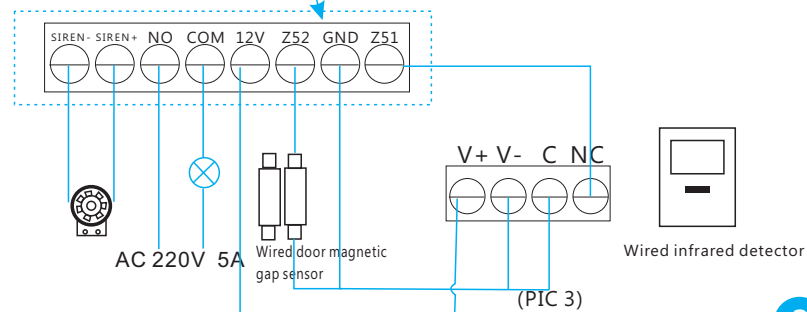
- Allow up to 120 wireless and 2 wired defense zones.
  - Each zone can be defined as one of the 8 zone types including NORMAL, STAY, INTELLIGENT, EMERGENCY, CLOSED, CHIME HELP SENIOR, WELCOME and HELP SENIOR.
- Four groups timely arm/disarm, choose different week and defense zone.
- With clock display, two groups ring bell function, adjustable ring time.
- 6 groups voice alarm phone number, 3 groups help number, 6 groups SMS number, can allocate different zones with different preset number groups.
- Embedded in a variety of intelligent voice prompts, indicate alarm location and defense zone accurately when alarm.
- System settings via keypad or make remote control phone call/send SMS
- Remote control realize arm/disarm, listen-in, talk function.
- 1 group relay linkage output to realize home appliances remote control.
- Wireless learn code. Maximum support 150 remote controllers and 150 sensors can be controlled in separate zones.
- Check 72 arm/disarm and 102 recent alarm events record. Indicate alarm time and defense zone.
- Built-in Ni-Hi rechargeable battery and automatically switch to back-up battery while power failure, and with SMS alert.

## 2 System construction and usage

### ■ Know the panel:

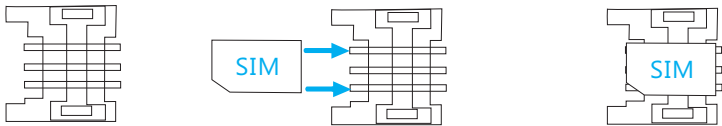


### ■ Wired interface connection diagram



SIM card installation

First step: Open back cover case, SIM card with gap side towards left.  
Second step: Slide SIM card into the card seat from right to left.



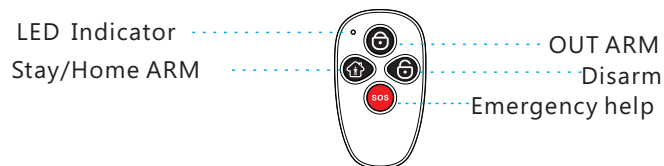
Supplements

NO	Function	Indications	Description
1	Built-in speaker	short "beep" once	Please enter
		"beep", "beep" twice	Exit or learn succeed
		"beep, beep, beep" three times	Error indication
		Voice prompt	operation voice prompt
2	Battery Power LED	Light up	External power off, using back-up battery
		Light off and time clock right	External UPS normally supply
3	Battery low voltage LED	Light up	Backup battery is low voltage
4	ARM LED	"BF"Light up,LCD display "BF"for 1 Second	OUT ARM
		Flashing every 1 second	Delay arm
		Off	Disarm
5	Stay arm LED	"LB"Light up,LCD display "LB" for 1 second	Stay arm
6	Alarm LED	Light up	Alarm
		Flash	Delay arm

NO	Function	Indications	Description
7	Clock LED	Light up	Enable the clock function
8	Timely arm/disarm LED	Light up	Enable timely arm/disarm function
9	KEYLOCK LED	Light up	Enable Keyboard password protection function
10	Recording LED	Light up	Enter recording status
11	SIM card indicator	Light up	SIM Card loaded correctly
		Flash	Unloaded SIM card or loaded wrong
12	GSM signal indicator	All light up	GSM signal strong
		Some light up	GSM Signal weak,still can alarm
13	Speaker indicator	Light up	Enable intercom function
14	Four digital tube LED	Light off	Save mode,standby for 1 minute auto shut off LCD display
		Light up	Show current time or alarm state
		Show 98 alarm	Press panel SOS alarm button
		Show 97 alarm	Tamper alarm

! Note: Installation way of desktop and wall mounted for your choice. Main panel should be placed in the middle of all wireless detectors to ensure best reception, but away from large metal objects or appliances with high-frequency interference and reinforced concrete walls and fire doors and other barriers.

## ■ How to use remote controller



### 1. OUT ARM

Put it ARM when Nobody at home. Press the arm key all the detectors start to work. Once detector(motion infrared, door magnet, smoke and gas, etc) triggered, panel will alarm immediately.

After armed, arm [ ] LED will Light up and LCD show "BF" for 1 Second.

Remote operation: Press Key [ ] in the remote control once.

Keyboard operation: Press Key [ ] in main panel once.

### 2. STAY/HOME ARM

Press HOME ARM to enable some detectors working, some not when at home.

In home alarm status, [ ] LED will Light up, and LCD show "BF" for 1 Second.

Remote operation: Press Key [ ] in the remote control once.

Keyboard operation: Press Key [ ] in main panel once.

### 3. Disarm

Press DISARM to stop alarm, all the detectors won't trigger alarm (except 24-hour emergency zone).

In disarm status, [ ] LED is off and LCD show "CF" for 1 Second.

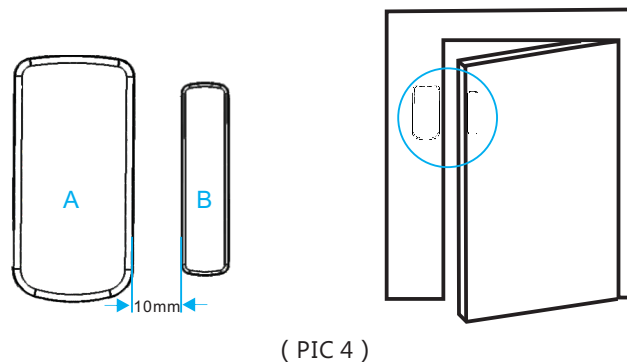
Remote operation: Press Key [ ] in the remote control once.

Keyboard operation: Press Key [ ] in main panel once.

### 4. Emergency call

When emergency comes, press [SOS] and it will alarm regardless of working pattern.

## ■ Door Sensor Installation and Test



- Open the case, install the battery properly by tear down insulation material.
- Clean the installation place. Put it on the door/window that can close/open.
- Install the transmitter (A) on door frame and the magnet (B) on door. Transmitter and magnet should be at the same level, distance between them should be within 10 mm.
- Double-sided tape or screws can be used for a firmly attachment.
- Make sure panel can receive wireless signal sent by detector. A large quantity of metal and antenna should be avoided in the area of detector.

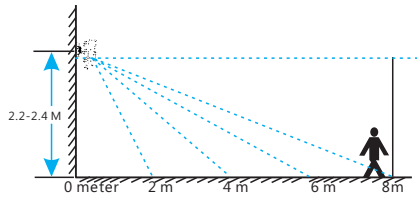
### Testing and Coding

- The newly-bought door sensors should be coded to the control panel before use. (For specified operation, please refer to the manual of alarm system.)
- Installation finished, To confirm it works properly by open your door or window with a red indicator light flashing.

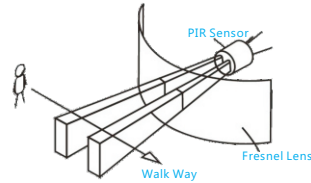


For more information, please refer to corresponding **Wireless Door/Windows Gap Detector user manual**

## ■ Infrared detector installation and test



( PIC 5 )



- Open detector case, choose work mode.
- When the power is on, indicator light will be blue for 2 seconds and pair with panel (blue light: send out wireless alarm signal. Red light: battery low-voltage, battery need a change). Put case back.
- Choose install position, adjust install angle/direction, walk test the protection area, make sure alarm triggered in three steps.
- Install at 2.2-2.4 meters from ground, using screws to fix bracket, put the detector on it. ( see PIC 5 )

### Notice

- Indoor use only.
- Avoid sunshine, direct strong light, heat, stoves, air condition and moving objects. Don't straight at door/window or vents.
- Detect direction must be tangential with body moving direction (vertical 90 degrees) is the best.
- With pets at home, please adjust the detector to higher view, above 0-30cm from ground, in case little pet trigger false alarm.
- Take care of fresnel lens, avoid dirty, scratching, falling down, crashing. In case damage inside components.



For more information, please refer to corresponding  
" PIR Motion Detector User Manual "

## 3 System Use and Set

### a .First time use

- ① Open back cover, put SIM card into SIM seat.
- ② Insert adapter into power hole, back-up battery button switch to [ON] status.
- ③ After voice prompt "Welcome to use voice gsm alarm system", start to searching GSM signal.

"SIM" character in screen shows SIM card installed well, signal bar on left place displays the signal strength. If "SIM" and signal bars keep bright, GSM signal and the SIM card are normal.

### b . General setting

All the settings, please insure input [#] to confirm.  
To exit, press [\*] first, then [#].



Note: If keyboard password protection function enabled, please enter password to operate. The initial code is 1234.

### 1. Alarm message recording

In alarm status, dial preset phone number and play preset recorded message. In setting status, Press 19# and voice prompt to remind you start to record. Record contents should be concise, such as this is XXX home, residential I illegal invasion here, please help." 10 seconds later, the system will exit automatically. Press any button to stop record.

### 2. Add Remote Control

In the setting status, press 07 + (000~120) + # to add remote control. 000~120 is zone number.

Example 1: Press 07 and then 001 # to add the 1st remote control.  
Take one sensor and let it transmit a signal to the host, adding successful when voice prompt "coding right ".If come out sound "di" once indicates repetition of code, please change other sensors. If you want to add more remote controls, input other three-digit code numbers. Follow the same route. Voice prompt in all operation.  
Learning well,press [#] to exit learn mode;press [\*] [#] exit setting.

 **Note:**Panel maximum support 150 different code remote controls.

### 3.Delete remote control


In setting mode, press 08+(000~120)+# to delete corresponding remote control.

Press 08+ \* \* \* + # to delete all remote controls.

E.g. 2:Press 08 then 001 # to delete NO.1 remote control.At this time directly input 008 if you want to delete NO. 8 remote control; input 010 to delete NO.10 remote control. Press # to exit delete remote control mode.


### 4.Add wireless detector

In setting mode, press 09+(000~120)+# enter detector adding mode.

 **Note:** Specific operation, please refer to (Example 1), the host can add up to 150 detector.

### 5.Delete wireless detectors

In setting mode, press 10+(000~120)+# to delete corresponding detector.  
Press 10+\* \* \* +# to delete all detectors

 **Note:** Specific operation, please refer to (Example 2).

### **c.**For other function settings please refer to Command Sheet below.

Following command valid for :

- a. keyboard settings
- b. remote phone call settings
- c. SMS remote settings these three ways.

**Example 3: If user want to set** the first alarm number 13899998888,  
Three setting methods:

**Method 1:** Press # to enter setting, then press 3113899998888#,  
and \* # to exit.

**Method 2: Make remote phone call, voice prompt "Enter Password".**  
**Enter 1234,host voice prompt "**"correct password", then press # with  
a voice prompt "set" indicate remote setting entered.

**Press 3113899998888# with corresponding voice prompts,**  
**then press \* # to exit.**

**Method three: Texting 12343113899998888 # to host number.**  
**Host will reply with "NO.1 Phone number: 13899998888" set is**  
**successful.**


**Example 4: If user want to delete** the **NO.1** alarm number.

**Method 1:** Input 31 # in remote phone setting status and then press \*  
# to exit.

**Method 2: Press 31#** to enter into remote phone call setting status.

**Method 2: Texting 123431# to host number.**

**Host will reply with "NO.1 Phone number: " delete successfully.**

 **Note:** Enter setting status,input command in the following to set.

## ■ Command sheet 1

(all the below command valid for the two methods)

<b>Preset voice alarm phone number</b>	Preset 1-9 group voice alarm phone numbers. [1-9] indicates the 1st group to the 9th group alarm numbers. Please refer to Example 3 for the specific instruction. Remark:
Command:[3]+[1-9]+[Phone number]+[#]	1. Power cut off or power on again, it will dial the 6th special number automatically and send SMS alert. 2. Only when the SOS emergency alarm will dial 7th, 8th, 9th Group number. Auto dial three times at most.
<b>Delete voice alarm phone number</b>	Delete 1-9 group voice alarm phone number Specific instruction refer to Example 4.
Command:[3]+[1-9]+[#]	
<b>Set SMS alarm number</b>	Preset 1st-6th group SMS alarm phone numbers. When alarm, host will send message to these six numbers. Specific instruction refer to Example 3.
Command:[4]+[1-6]+[Phone number]+[#]	
<b>Delete SMS alarm number</b>	Delete 1-9 group SMS alarm numbers, refer to example 4 for specific instruction
Command:[4]+[1-6]+[#]	
<b>Password modification</b>	To modify the user password, the default user password is 1234. Change it before using.
Command:[50]+[4 digits newpassword]+[#]	
<b>Delay arm time</b>	Set the delay time for out arm. 0-99 seconds can be set, system default 00 seconds.
Command:[51]+[00-99 S]+[#]	
<b>Set delay alarm time</b>	panel ready to alarm time, 0-99 seconds can be set, system default 00 seconds.
Command:[52]+[00-99 S]+[#]	
<b>Set Siren alarm time</b>	Set siren alarm time, 0-20 mins can be set, system default 1 min.
Command:[53]+[00-20 Minutes]+[#]	

<b>Set alarm panel and remote control operate zones</b>	Set alarm panel and remote control operate zones area Factory default all remote control and panel can control all 000-120 zones. Remark: The 1 <sup>st</sup> remote control represented by number 001, *** represents the alarm panel keyboard. Example 5: If you want main panel to control 00-50 defense zone. Method one: Enter the configuration mode, press 54***000050# and press *# to exit configuration mode. Method two: Enter the remote configuration mode, then press 54***000050#. Method three: Send SMS message 123454***0050#
Command:[54]+[remote control number 000~120]+[Starting defense zone 000~120 ]+[ End of defense zone 000~120 ]+[#]	
<b>Arm/Disarm siren sound on/off</b>	Use remote control and panel to Arm/Disarm siren on/off. 1 means on and 0 means closed, the default is on. Example: 001 represent 1 <sup>st</sup> remote control, *** represent main panel keyboard. Specific instruction refer to Example 5.
Command:[55]+[Remote control number 000~120]+[0/1]+[#]	
<b>Set system time and date</b>	Set the system date include year, month, day, time, minute and seconds.
Command:[56]+[four digital year]+[01-12 Month]+[01-31 day]+[00-23 clock]+[00-59 minute]+[00-59 second]+[#]	
<b>Timely Arm/disarm time set</b>	To set the time for scheduled arm and disarm from 1 <sup>st</sup> to 4 <sup>th</sup> group and choose week. Example 6: set up the first group scheduled time to arm at 22 : 00 pm and disarm at 07 : 00 am, this is valid for Monday, to Friday. Method one: Press # enter configuration mode, and then press 57012200070012345#, and then press *# to exit. Method two: enter the remote configuration mode, and then press 57012200070012345 #. Method three: Send SMS message 123457012200070012345 #.
Steps:[ 57 ]+ Group number [01~04 ]+[ AAAA time of arm ]+[BBBB disarm time ]+[ Number of week ]+[#]	

<b>Delete timely arm/disarm time</b>	To delete the scheduled arm and disarm time from
Command:[57]+Group number[01~04]+[0]+[#]	1 <sup>st</sup> to 4 <sup>th</sup> group.
<b>Scheduled clock time setting</b>	To set two groups clock ring time and choose week,when ringing press any button to cancel or press remote control Disarm button.
Command:[57] + Group number [05~06]+ [AAAA start]+[BBBB end]+[ Number of week]+[#]	Suggestion: you'd better to put the remote control at your bedside easier for you to operate. Specific instruction refer to Example 6.
<b>Delete the clock time</b>	
Syntax:[57]+Group number[05~06]+[0]+[#]	To delete the 1st to 2nd groups scheduled clock time .
<b>Timely arm/disarm defense zone settings</b>	
Syntax:[58]+[Group number 01~04 ]+[000-120 begin zone number]+[000-120 end zone number ]+[#]	Set four groups timely arm/disarm zones.
<b>Set defense zone type</b>	Set 120 defense zone type, 000-120 represents 0-120 zone number, 1-8 represents one of the 8 zone type: 1.NORMAL 2.STAY ARM 3.INTELLIGENT 4.EMERGENCY 5.CLOSED 6.CHIME 7.WELCOME 8.HELP SENIOR
Command:[60]+ [000-120 zone numbe]+[1-8 type]+[0/1]+[#]	[0/1]0 represents siren no sound when the zone alarm, 1 siren with sound.
<b>Wired defense zone attribute setting</b>	Set two wired defense zone attribute. 051-052 are wired defense zones. System default: 51-52 zone short-circuit alarm NO mode.
Syntax:[61 ]+[zone number 051-052 ]+[0/1 ]+[#]	[0/1],0 means NO and 1 means NC NO means short-circuit to alarm NC means open-circuit to alarm

<b>Remote setting function on/off</b>	Except remote control/detectors coding and record function,all the other funtions can be set remotely.
Syntax:[62]+[0/1]+[#]	System default 1-on.
<b>Assign specific phone number to certain zone</b>	To set specific phone numbers to certain zones.
Syntax:[ 63 ]+[000-120 begin zone]+[000-120 end zone]+[Phone alarm number 123456 ]+[#]	System default: 000-120 defense zones will dial from the first to sixth group phone number. Remarks: if user want a appointed phone number to dial the zone, he can put phone number of the begin zone the same with the end zone.
<b>Clock display save mode ON /OFF</b>	Clock display save mode on or off ,0 means off ,1 means on. System default:1 When alarm host in standby state:
Syntax:[84]+[0/1]+[#]	If ON, clock display auto off 1 minute later. If OFF, clock display will stay on.
<b>Set audible voice on/off</b>	Remote control or system operation voice prompt on/off. 1 ON,0 OFF.
Syntax:[11]+[0/1]+[#]	System default 1,ON. 1 is on and 0 is off.
<b>Enable/disable SMS on/off</b>	System Default is 1,on. Remarks : If you disable SMS function,host won't send out any alarm SMS or reply.
Syntax:[12]+[0/1]+[#]	
<b>Siren volume adjustment</b>	00 stand for minimum voice, 99 for maximum voice system defaut
Syntax:[14]+[00-99]+[#]	Please note: Extremely low voice may leads to abnormal siren voice. please should be used with caution
<b>Anti-cracking</b>	In the ARM state,Any remote control can't disarm the host,but the host keypad can disarm.
Syntax:[15]+[0/1]+[#]	1 means ON, 0 means OFF System default is 0,off.
<b>Interference Alert on/off</b>	In arm state, when receive same wireless interference over 15 seconds,host siren ring 5 seconds.Panel display Tp.
Syntax:[16]+[0/1]+[#]	
<b>Keyboard password protection</b>	When Keyboard password protection is on, enter password before operation. Factory default password is 1234.
Syntax:[17]+[0/1]+[#]	System default is 0 means off.

<b>Alarm linkage function on/off</b>	Enable/disable alarm linkage function. 1 is enabled and 0 is disabled, system default is 1. Remark: If enabled, the relay(NO and COM) will turn to close state. Closing time same as siren ring time. If disabled, the relay(NO and COM) can control home appliance remotely. Via remote setting to control on/off.
Syntax:[20]+[0/1]+[#]	
<b>Factory reset</b>	System factory reset
Syntax:[9898]+[#]	Remark: Delete all phone numbers, password back to 1234, but remote control and detector code won't lose.
<b>Reset Mandatory</b>	Disconnect power, turned off battery switch, then press and hold ARM button on keypad, respond with "beep, beep, beep..." sound, for 5 seconds, release ARM button. Panel back to factory settings, password 1234, delete all remote control and detector coding message.
Syntax: Press and hold the ARM button until power on	Remarks: If the user open password protection function but forget. Please reset mandatory back to factory setting.

## ■ Function of call up

The panel can be used as a phone, to make phone call.

Syntax: Enter[#+0 0+phone number+ # ], directly make phone call

Press DISARM key to hang up.

e.g. If you want to call 13712345678, input 1 # 0013712345678# when panel in standby status and then can be get through. At the end of your call, press DISARM key, press \*, and then press # to exit.

## ■ Power cut off/come back alert

When AC power is off/on, host will dial the 6<sup>th</sup> number and send SMS message "AC power off/on" to this number.

And AC power is on, the panel will do the same with "AC power is on".

Remark: If you disable the SMS message function or didn't set the SMS alarm number, this function will auto off.

## ■ Host panel query function

Press panel "Enquiry" (Q) key, and then enter the following command to check various parameters of the host settings; press \* then press # to exit.

If open password protection, please enter the password to unlock, then press the "Enquiry" (Q) button to check the following instruction.

<b>Query voice alarm phone number</b>	Query 1-9 group voice alarm phone numbers. Press Enquiry key on keyboard, and then press 31#, display screen will show 1 <sup>st</sup> group phone number.
Syntax: 3+[1-9]+[#]	
<b>Query SMS phone number</b>	Query 1-6 group SMS phone numbers. Press Enquiry key on keyboard, and then press 41#, display screen will show 1 <sup>st</sup> SMS number.
Syntax: 4+[1-6]+[#]	
<b>Query password</b>	Query current four digits password, Press Enquiry key and then press 50#, LCD display 1234 is current password. Press # to clear, press * then press # to exit.
Syntax: 50+[#]	
<b>Query delay arm time</b>	Query delay arm time (00-99) Seconds Press Enquiry key, and then press 51#, LCD display 00 means delay time is 0 second.
Syntax: 51+[#]	
<b>Query delay alarm time</b>	Query delay alarm time (00-99) Seconds Press Enquiry key, and then press 52#, LCD display 00 means delay time is 0 second.
Syntax: 52+[#]	
<b>Query siren ring time</b>	Query siren alarm ring time (00-20) minutes. Press Enquiry key, and then press 53#, LCD display 01 means ring time is 1 minute.
Syntax: 53+[#]	
<b>Query remote control and keyboard assignments to zone</b>	Query of specific remote control and keyboard assignments to which zone 000-120. Press Enquiry key, and then press 54001#, LCD display 000-120, means 1 <sup>st</sup> remote controller controlling zone 000-120, press # to clear screen. Press 5402 # to query 2 <sup>nd</sup> remote control's condition.
Syntax: 54+[000-120]+[#]	
<b>Query remote control or keypad voice prompt</b>	Query NO. 000-120 remote control or keyboard's voice prompt on/off. ON means sound. OFF means no sound. *** present keyboard. e.g. Press Enquiry key, and then press 5501#, LCD display ON, means 1 <sup>st</sup> remote control with voice prompt while arm/disarm.
Syntax: 55+[000-120]+[#]	

<b>Query system date and time</b>	Query the system date and time. After DI sound, Press Enquiry key, and then press 56#, LCD display 2012, after DI sound display 0601, then DI sound again display 1830, DI sound display 5. So the current time is 18:30pm, 1 <sup>st</sup> June, 2012 ----Friday.
Syntax:56+[#]	
<b>Query timely arm/disarm time and week</b>	Query 1st to 4th group scheduled time and week for arm/disarm, two group clock bell time and week. e.g. Press Enquiry key, and then press 5701# to query the first group scheduled arm and disarm, LCD display 22-00, after DI sound display 07-00, DI sound again display 12345, means schedule time is from Monday to Friday, 22:00 pm Arm, 07:00 Disarm.
Syntax:57+[01-06]+[#]	
<b>Query the zone number with scheduled arm/disarm</b>	Query the 1 <sup>st</sup> to 4 <sup>th</sup> group scheduled arm/disarm's zone number. Press Enquiry key, and then press 5801# to check the 1 <sup>st</sup> arm/disarm group controlled which zones, display "000-120" means it controls 000-120 zones.
Syntax:58+[01-04]+[#]	
<b>Query type of wireless defense zone.</b>	Query the zone types of 000-120 and siren sound. e.g. Press Enquiry key, and then 600001# to check the condition of 1 <sup>st</sup> zone. 1 on panel means NORMAL, 2 means STAY ARM, 3 means INTELLIGENT, 4 means EMERGENCY, 5 means CLOSED, 6 means CHIME, 7 means WELCOME 8 means HELP SENIOR. The word "ON" mean siren with sound, "OFF" no sound.
Syntax:60+[000-120]+[#]	
<b>Query the type of wired zones</b>	For query the zone type of 51~52 Example: Press Enquiry key, and then press 61051# to query 51 zone alarm type, show NO means short-circuit to alarm, while show NC means open circuit to alarm.
Syntax:61+[051-052]+[#]	
<b>Query remote operation on/off</b>	To query if the remote operation is allowed, it should show either ON or OFF.
Syntax:62+[#]	
<b>Query phone number for specific zone</b>	To query the phone number assigned to zone 000-120 for alert. e.g. Press query key, and then press 63001# to see which number is allocated for 1 <sup>st</sup> zone, if display 123456, means these 6 group of phone numbers are assigned to 01 zone. If display 34, 3 <sup>rd</sup> and 4 <sup>th</sup> group number is allocated to 1 <sup>st</sup> zone.
Syntax:63+[000-120]+[#]	

<b>Query clock display save mode on/off</b>	To query clock digital tube display save mode on/off ON-open, OFF-close
Syntax:84+[#]	
<b>Query audible voice prompt on/off</b>	Query whether the system audible voice prompt on/off ON-open, OFF-close
Syntax:11+[#]	
<b>Query SMS messaging function on /off</b>	For query the SMS messaging function. ON-open, OFF-close
Syntax:12+[#]	
<b>Query siren volume</b>	Query for the volume level of siren (00~99), e.g. Press enquiry key, and then press 14# to see the voice volume. 00 as lowest and 99 as highest volume.
Syntax:14+[#]	
<b>Query anti-cracking function</b>	To query anti-cracking function on/off. ON is open, OFF is close.
Syntax:15+[#]	
<b>Query same frequency interference alert</b>	To query interference alert is on/off. ON is open, OFF is close.
Syntax:16+[#]	
<b>Query keyboard password protection</b>	To query if the password protection function is on. ON is open, OFF is close.
Syntax:17+[#]	
<b>Query alarm linkage on/off</b>	To query alarm linkage function. ON means is needs alarm linkage while OFF means don't.
Syntax:20+[#]	
<b>Query alarm panel arm/disarm records</b>	The system can save up to the most recent 72 disarmed records. Press enquiry key, and then press 9901#, press 8 to scroll up and 0 to scroll down for records. The first display is the record serial number, like, 01. It shows the 1 <sup>st</sup> record. Other indications as: After DI sound, 0801 means 1st August DI sound again, 1210 means time is 12:10 DI sound once again shows the following features. YC = arm/disarm from remote JP = arm/disarm from keyboard DS = Scheduled arm/disarm YK = arm/disarm from remote control CF = disarm
Syntax:9901+[#]	

<b>Query alarm panel arm/disarm records</b>	BF=arm LSBF=stay arm 01 = remote control number 1 . 120= remote control number 120.
Syntax:9901+[#]	Remark: if first display DS, and then show 01,02,03,04, it means 4 groups of scheduled arm/disarm.
<b>Query alarm records</b>	System can save up to the most recent 102 alarm records. Press Enquiry key, and then press 9900#, press 8 to scroll up and press 0 to scroll down for records. The first display is the record serial number, like, 01. It shows the 1 <sup>st</sup> record.
Syntax:9900+[#]	After DI sound display date. E.g. 0801 is 1 <sup>st</sup> August DI sound again display time. E.g. 1210 is 12:10 am DI sound once again display 01 mean zone 1 alarm,120 mean zone 120 alarm.
<b>Query current ARM zones</b>	For query the arm district Press Enquiry key,LED light flashing,and then press 00#.
Syntax:00+[#]	LCD show 000-120 means zone 000-120 in ARM state.

## ■ SMS enquiry and SMS control host functions

The following instructions is only work for SMS remote operation,setting and inquiries:

Function	Syntax	Description
<b>Remote SMS Disarm</b>	0#	Send SMS message 12340# to host Note: 1234 is initial password, use new password when it is changed.
<b>Remote SMS Arm</b>	1#	Send SMS messages 12341# to host for ARM
<b>Remote SMS Stay Arm</b>	2#	Send SMS message 12342# to host for STAY ARM.
<b>Remote SMS turn on relay</b>	3#	Send SMS message 12343# to host
<b>Remote SMS turn off relay</b>	4#	Send SMS message 12344# to host.
<b>Query the AC power status</b>	6#	Send SMS messages 12346# to host,if host reply AC power ON or AC power OFF. ON shows the power is normal and OFF shows outside power supply is abnormal or power off.
<b>Query the alarm panel general settings</b>	11#	Example: Send SMS message 123411# to the alarm panel, the alarm panel replies with a list of related setting: arming,Relay out off ,Green ,Alarm out on , Send SMS on ,Remote set on ,Password:1234, Alarm delay:00s,Arm delay:00s,Siren on 1 min, Siren VOL:99,Crack off ,Disturb off ,Key lock off , Voice on
<b>Query voice alarm phone number</b>	30+ [01-09] +[#]	Return a list of 1st to 9th phone number group for voice alarm. Example: Send 12343001# to the alarm panel, the alarm panel replies " Group 1 phone number: 13712345678" means the first voice alarm phone number is 13712345678
<b>Query SMS number</b>	40+ [01-06] +[#]	Query 1st to 6th SMS numbers E. g. Send SMS messages 12346# to host, panel reply with 13888889999 which is the 1st SMS alarm number.

<b>Query assignment of remote control to defense zone.</b>	Query the assignment of remote control and keyboard to specific defense zone Example: Send 123454001# to host, host replies: "001 remote control zone range:000-120, Keyboard zone range:000-120", it means 01 remote control is assigned to control zone 000-120. and keyboard is assigned to control zone 000-120.
54+[000-120]+[#]	
<b>Query the system time</b>	Query the system time by SMS. Example: Send 123456# to host, host replies "System clock :2012-07-01 12:00". Means the system is now July 1 <sup>st</sup> , 2012 12 : 00 am.
56+[#]	
<b>Query scheduled arm/disarm status</b>	Query the four groups scheduled arm/disarm about the time, week and zones. Example: send 12345701# to the host, the alarm panel replies: 1 <sup>st</sup> group scheduled timing arm and disarm settings: Arm time:12:00 Disarm time:13:00 Arm/Disarm week:1234567 Zone range:000-120 Means: the first group scheduled time to arm at 12:00 and disarm at 13:00, this is valid each day. scheduled arm/disarm in 000-120 zone
57+[01-04]+[#]	
<b>Query wireless defense zone type and siren on/off</b>	Query the type and siren setting of certain wireless defense zone Example: Send message 123460001# to host, host will reply: "zone 001 is wireless normal zone, siren ON."
60+[000-120]+[#]	
<b>Query wired defense zone type and siren on/off</b>	Check the host's zone 51-52 alarm type and siren status Example: send text message 123461051# to host, the host replies: "051 zone is wired zone, zone type:normal; siren ON; alarm type: NO". It means zone 51 is a normal zone, siren in it is on and alarm type is NO (Z51 and GND in Short circuit alarm).
61+[051-052]+[#]	
<b>Query phone number assignment to zone</b>	Query by SMS to know the phone number assigned to zone 000-120. Example: send message 123463001# to host, host replies: "zone 01 dial group number "123456". It means zone 1 will dial 123456 these six group numbers.
63+[00-120]+[#]	

<b>Customize the SMS message for certain zone</b>	Used to customize the SMS message to 1-6 group numbers for zone 000-120. Example: Send message "123480001 Front Door Open#" to the host, it will send message "zone 001 Front Door Open" to 1-6 group numbers upon zone 01 being triggered. Note: Maximum length of message is 25 characters. System will add zone number in the message automatically.
80+[000-120]+[SMS message]+[#]	
<b>Query customized SMS message contents</b>	Query customized SMS message contents of zone 000-120 when alarm triggered. Example: Send 123481001# to the alarm panel to quer
81+[000-120]+[#]	



Note: "1234" shown in above table all represents the initial password. User can change password and use new password to operate.

## 4 .Alarm reception&remote control

### 1. What to do when get alarm call

When alarm,dial the preset telephone numbers from 1st to 6th group,send SMS to 1st to 6th groups,siren on/off accord to your setting. If one line is busy or can't get through, auto dial next number, every number call 3 times.

Get alarm call auto play 10 seconds recording without input password,press cell phone/telephone digital number can control following functions:

- |  |                         |
|--|-------------------------|
| [1] key: arm   | [2] key: disarm         |
| [3] key: listen-in   | [4] key: stop listening |
| [5] key: talk  | [6] key: stop talking   |
| [7] key: siren on  | [8] key: siren off      |
| [9] key: turn on relay   | [0] key: turn off relay |
| [*] key: hang up and exit, won't dial the next number on list. |                         |

**Remark:**


If you don't press "\*" or "2",sytem continue to dial next number.

2.Remote control:

Use your phone to dial the host, ring for a while system is connected automatically. Voice prompt please enter password,enter your password (1234 factory default, input wrong remind you input again, wrong for three times, hang up automatically).

Input right, voice prompt correct password, press cell phone/telephone digital number can control following functions:

- [1] key: arm
- [2] key: disarm
- [3] key: listen-in
- [4] key: stop listening
- [5] key: talk
- [6] key: stop talking
- [7] key: siren on
- [8] key: siren off
- [9] key: turn on relay
- [0] key: turn off relay
- [\*] key: hang up and exit.
- [#] key:Enter remote configuration mode,make general settings refer to Sheet 1 Commands. Without any operation after 20 seconds auto hang up and exit.



Note:

- 1.Listen-in time is 20 seconds, press key [3] in 20 seconds to keep listening.
- 2.When monitoring press key [5] for two-way intercom.
- 3.When talk, press key [5] in 20 seconds to keep talking

5 .Defense zone type and parameters

There are 120 defense zones. Every zone with eight different types.

1.NORMAL Defense Zone:

Panel only works on ARM status.No response while Disarm.

2.STAY Defense zone(HOME Defense zone):

While stay Arm,detectors in stay zone won't alarm even triggered.

3.INTELLIGENT Defense zone:

If the detectors in the zone triggered only once,won't alarm. But if triggered again within 30 seconds it will alarm immediately.

4.EMERGENCY Defense zone:

No matter arm/disarm,it will alarm immediately once detector triggered. Usually pair with smoke detector,gas detector and emergency button,etc.

5.CLOSED Defense zone:

No matter arm/disarm, it won't alarm even detectors triggered.

6.CHIME Zone:

No matter arm/disarm,detectors in the zone is triggered with door bell voice prompt.

7.WELCOME Zone:

When Disarm,detectors in the zone triggered with welcome voice prompt.When Arm/Stay arm status, it will alarm once detector in the zone triggered.

8.HELP SENIOR Defense Zone:

No matter arm/disarm,it will alarm with voice prompt " help senior"and dial 7,8,9 group numbers once detector in this zone is triggered.

Zone types(system default):

zone Stay	No.60-79 zone	Emergency	No.80-89 zone
Help Senior	No.90 zone	Chime	No.91 zone
Welcome	No.92 zone	Normal	No.01-59,100~120
Intelligent	No.93-99 zone	Anti-tamper	No.97 zone

## ■ System default

Operation password	1234		
Remote Control setting	Enable	Clock display save mode	Enable
Siren ring time	1 minute	Remote control operation voice prompt	Enable
Delay ARM	0s	Delay alarming	0 second
Siren volume	99	0-120 zone alarm	Siren sound on
Alarm linkage	Enable	51-52 wired zone alarm type	NO
SMS message	Enable	1-120 zone SMS message	Certain zone alarm

## ■ Panel parameters

Input voltage: DC9V-12V

Standby currents: < 25 mA

Alarm current: < 450 mA

Wireless frequency: 315/433/868/915MHZ ,

2262/1.5-4.7M , EV1527/300K

GSM Format: Support GSM850/900/1800/1900MHz (option)

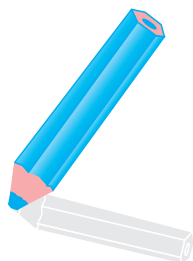
Backup battery: NI-HI AAA\*6 DC7.24V

Alarm loudness: 110dB

## 6.FQA

Troubleshooting	Reasons	Methods
SIM card not read by panel, or GSM can't call and SMS	SIM card unloaded SIM need PIN code GSM signal weak Forget to preset alarm number Forget to preset SMS number Insufficient of SIM card or validity passed Close SMS text function	Load SIM card Cancel PIN code Take to strong signal place or add GSM antenna Set voice alarm number Set the SMS number Pay phone bills Enable SMS messages function
Can't remote control	Input Password wrongly	Input correct password or change new password or Reset Mandatory
No record indication when alarm	Didn't record	Re-record according to manual book
Remote controller not work	Coding unmatched with the host Insufficient power battery pieces poor contact or corroded Unmatched with host	Re-coding Change battery Polish elastic plate of battery Contact local dealer find a matching one
Infrared detector not work	Low-power	change battery
Siren no sound	Siren plug/jack in short circuit or broken-line Plug line cut off Siren closed	Repair or change plug/socket Change plug line Set siren ringing time
panel receive infrared sensor,door sensor, remote control distance shortened	A nearby emitter is transmitting Panel receiver failure Standby battery of the host insufficient	find the interfering source and move it Delivery back to manufacturer for repairs Check host power.
Press Key Button failure	Password keyboard protection function is on	Close password keyboard protection function
Without voice prompt	Voice prompt function is off	Open voice prompt function

Five horizontal lines for writing.



Twenty horizontal lines for writing.